

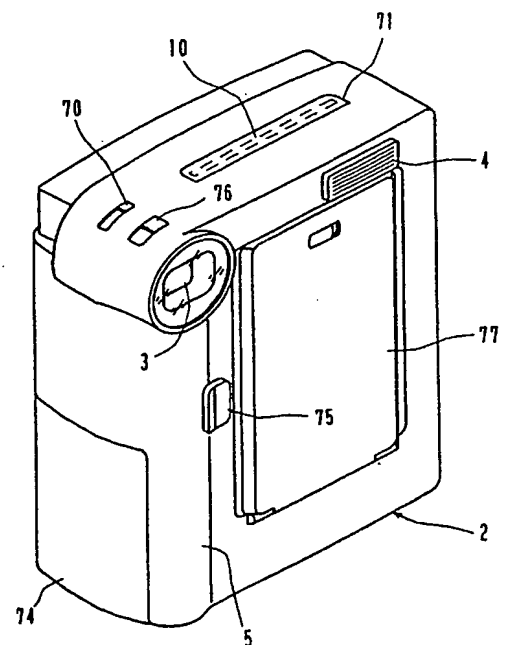
(51) 国際特許分類6 G03B 17/52, 17/48, 19/02, 27/72, H04N 1/387, 1/04, 1/12, 1/00		A1	(11) 国際公開番号 WO99/21055
			(43) 国際公開日 1999年4月29日 (29.04.99)
(21) 国際出願番号 PCT/JP98/04778		(71) 出願人 (米国を除くすべての指定国について) 富士写真フイルム株式会社 (FUJI PHOTO FILM CO., LTD.) [JP/JP] 〒250-0193 神奈川県南足柄市中沼210番地 Kanagawa, (JP)	
(22) 国際出願日 1998年10月22日 (22.10.98)		(72) 発明者 ; および (75) 発明者 / 出願人 (米国についてのみ) 青崎 耕(AOSAKI, Ko) [JP/JP] 大村 紘(OMURA, Hiroshi) [JP/JP] 内山浩行(UCHIYAMA, Hiroyuki) [JP/JP] 〒351-8585 埼玉県朝霞市泉水三丁目13番45号 富士写真フイルム株式会社内 Saitama, (JP)	
(30) 優先権データ 特願平9/291058 1997年10月23日 (23.10.97) JP 特願平10/65872 1998年3月16日 (16.03.98) JP 特願平10/256868 1998年9月10日 (10.09.98) JP		(74) 代理人 弁理士 小林和憲, 外(KOBAYASHI, Kazunori et al.) 〒170-0004 東京都豊島区北大塚二丁目25番1号 太陽生命大塚ビル3階 Tokyo, (JP)	
		(81) 指定国 CN, KR, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
		添付公開書類 国際調査報告書	

(54) Title: ELECTRONIC STILL CAMERA, INSTANT PRINTER AND INSTANT FILM

(54) 発明の名称 電子スチルカメラ、インスタントプリンタ及びインスタントフイルム

(57) Abstract

Image data obtained from an image sensor are stored in a memory. In order to print an image, a printing head is driven by the image data read line by line from the memory while the printing head is moved in the vertical scanning direction, and an instant film is exposed line by line. When the exposed instant film is fed out through a spread roller, developer is applied to develop the film. Alternatively, while the instant film is fed out, the printing head is driven synchronously with the feed to print the image by one vertical scanning without moving the printing head. An array of three color light emitting devices is provided in the printing head, and the lights of the colors are projected onto the instant film simultaneously. When the power supply switches off an electronic still camera is turned on, the camera is automatically set up in a shooting mode. When a reproduction mode key and a printing mode key are respectively operated, the mode is immediately shifted to a reproduction mode and a printing mode, respectively. Even when the mode of the camera is the reproduction mode, the mode can be shifted to the image pickup mode immediately by pressing a shutter release button.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP98/04778

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁶ G03B17/52, G03B17/48, G03B19/02, G03B27/72, H04N1/387, H04N1/04, H04N1/12, H04N1/00 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁶ G03B1/00-1/66, G03B17/26-17/34, G03B17/38-17/55, H04N1/387 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Meisaisho 1997-1998 Kokai Jitsuyo Shinan Koho 1971-1996 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 1-137245, A (Canon Inc.), 30 May, 1989 (30. 05. 89), Claims ; page 2, upper left column, line 6 to lower right column, line 8 ; Figs. 1 to 6 (Family: none)	1-27
Y	JP, 59-219737, A (Konica Corp.), 11 December, 1984 (11. 12. 84), Claims ; page 2, lower right column, line 5 to page 4, upper left column, line 3 ; Figs. 1 to 4 (Family: none)	1-27
Y	JP, 2-287527, A (Fuji Photo Film Co., Ltd.), 27 November, 1990 (27. 11. 90), Page 2, lower right column, line 12 to page 3, upper right column, line 6 ; page 4, upper left column, lines 2 to 9 ; Figs. 2, 3 & US, 5032911, A	1-27
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
Date of the actual completion of the international search 3 December, 1998 (03. 12. 98)		Date of mailing of the international search report 15 December, 1998 (15. 12. 98)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP98/04778

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 2-301736, A (Minolta Camera Co., Ltd.), 13 December, 1990 (13. 12. 90), Claims ; page 2, lower left column, line 13 to upper right column, line 2 ; page 3, upper left column, lines 1 to 3, 7 to 11 ; page 5, upper right column, lines 1 to 9 ; page 5, lower left column, line 7 to page 6, upper left column, line 9 ; page 8, lower left column, line 10 to page 9, upper right column, line 9 ; page 9, lower left column, lines 18 to 1 ; page 10, upper right column, line 19 to lower left column, line 5 ; page 11, upper right column, line 9 to lower left column, line 5 ; Figs. 1 to 4, 6, 8 to 13 & EP, 398295, A	1-27
Y	JP, 2-301734, A (Minolta Camera Co., Ltd.), 13 December, 1990 (13. 12. 90), Page 2, lower left column, lines 9 to 18, lower right column, lines 17 to 19 ; page 3, upper left column, lines 3 to 7 ; page 5, upper left column, line 18 to upper right column, line 5 ; page 5, lower left column, line 3 to page 6, upper left column, line 5 ; page 8, lower left column, line 6 to page 9, upper right column, line 5 ; page 9, lower left column, lines 14 to 18 ; page 10, upper right column, line 15 to lower left column, line 1 ; page 11, upper right column, lines 5 to 20 ; Figs. 1 to 4, 6, 8 to 13 & EP, 398295, A	1-27
Y	JP, 3-282531, A (Brother Industries, Ltd.), 12 December, 1991 (12. 12. 91), Page 4, upper right column, lines 12 to lower right column, line 7 ; Figs. 1 to 3 & US, 5091743, A	7, 8
Y	JP, 4-51034, A (Brother Industries, Ltd.), 19 February, 1992 (19. 02. 92), Claims ; page 2, lower left column, lines 1 to 5 ; page 3, upper right column, line 12 to lower left column, line 9 ; Fig. 1 (Family: none)	7, 8
Y	JP, 4-29128, A (Seiko Epson Corp.), 31 January, 1992 (31. 01. 92), Claims ; page 3, lower left column, line 14 to page 4, upper left column, line 18 ; Figs. 2, 6 (Family: none)	9, 10
Y	JP, 9-65182, A (Canon Inc.), 7 March, 1997 (07. 03. 97), Par. Nos. [0054], [0055]	18
Y	Claims ; Par. Nos. [0015], [0046], [0048], [0081] to [0083] (Family: none)	19
Y	JP, 9-61934, A (Canon Inc.), 7 March, 1997 (07. 03. 97), Claims ; Par. Nos. [0015], [0046], [0048] to [0053], [0077], [0078] (Family: none)	19

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP98/04778

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 5-27341, A (Seikosha Co., Ltd.), 5 February, 1993 (05. 02. 93), Claim 4 ; Par. Nos. [0020], [0022], [0028], [0036] to [0042] ; Figs. 4 to 6 (Family: none)	13, 22, 28
Y	JP, 5-19383, A (Seikosha Co., Ltd.), 29 January, 1993 (29. 01. 93), Claims ; Par. Nos. [0004], [0006] to [0008], [0025], [0026] ; Figs. 1, 2, 6, 8 (Family: none)	13, 22, 28
Y	JP, 5-19380, A (Seikosha Co., Ltd.), 29 January, 1993 (29. 01. 93), Claims 3 to 5 ; Par. Nos. [0002] to [0005], [0018] to [0020] ; Figs. 1 to 6 (Family: none)	13, 22, 28
Y	JP, 6-189308, A (Eastman Kodak Japan Ltd.), 8 July, 1994 (08. 07. 94), Claims 1, 2 ; Par. Nos. [0008] to [0010], [0021] to [0025] (Family: none)	2, 12, 14, 17, 18
Y	JP, 3-271730, A (Fuji Photo Optical Co., Ltd.), 3 December, 1991 (03. 12. 91), Claims ; page 2, upper left column, line 7 to lower left column, line 4, lower right column, lines 8 to 20 ; page 3, lower left column, line 16 to lower right column, line 16 ; Fig. 1 (Family: none)	2, 12, 14, 17, 18
Y	JP, 4-212943, A (Nikon Corp.), 4 August, 1992 (04. 08. 92), Claims ; Par. No. [0006] & US, 5687415, A	28
Y	JP, 52-119224, A (Eastman Kodak Co.), Page 2, lower right column, line 18 to page 3, upper left column, line 10 & DE, 2611603, A & FR, 2343271, A & GB, 1571044, A & US, 4020499	28
Y	JP, 4-78843, A (Brother Industries, Ltd.), Fig. 2 (Family: none)	28
Y	JP, 6-309428, A (Canon Inc.), Claims ; Par. Nos. [0008], [0012] to [0014], [0148] to [0153], [0157] to [0190], [0254] ; Figs. 3, 33, 28, 48 to 50 (Family: none)	2